

AMENDMENTS TO THE CLAIMS:

The following listing of claims supersedes all prior versions and listings of claims in this application:

1. (Currently Amended) A computer system configured for communications, comprising:

a processor;

a first operating system running on the processor, said first operating system being a real-time operating system;

a second operating system running on the processor, said second operating system being a general purpose operating system; and

a network interface for communicating data,

wherein the first and second operating systems are arranged to share usage of the network interface;

the network interface operates using a single set of network logical addresses common to both operating systems,

~~the first operating system comprises a transmission scheduler is arranged to selectively enable the first operating system or the second operating system to transmit~~

data via the network interface, thereby to allocate transmission capacity between the two operating systems;

the first operating system comprises a first proxy driver program, and a network interface driver program for communicating data from the network interface to the first operating system;

the second operating system, instead of a network interface driver program, comprises a second proxy driver program for communicating with the first proxy driver program; and

executable computer program code defining the first operating system is arranged to receive all data incoming through the network interface and to forward to the second operating system data not specifically for use by the first operating system or applications running thereon via the first and second proxy driver programs

the system further comprising executable code for providing a real-time data transmission channel for communicating data and associated control and/or supervisory signals, in which the code comprises:

first code operating under said first operating system for communicating said data; and

second code operating under said second operating system for communicating said control and/or supervisory signals,

wherein the first operating system is arranged to use a UDP/IP protocol stack to communicate said data.

2-5. (Cancelled)

6. (Previously Presented) A system according to claim 21, in which the transmission scheduler is arranged to give priority to the first operating system.

7. (Previously Presented) A system according to claim 21, in which the transmission scheduler is arranged not to send any packets from the second operating system while there are packets for transmission from the first operating system.

8-11. (Cancelled)

12. (Previously Presented) A system according to claim [[11]] 1 or 21, comprising an inter-operating system communications channel for carrying messages between said first and second operating systems, and/or applications running thereon.

13. (Previously Presented) A system according to claim 1 or 21, in which the first operating system has a first subset of address ports and the second operating

system has a second subset of address ports, each said subset comprising at least one address port, said first and second subsets being mutually exclusive.

14-16. (Cancelled)

17. (Currently Amended) ~~The system of claim 15 or 16 implementing a~~ A voice-over-Internet communications system comprising:

a computer concurrently running first and second operating systems,

the first operating system being a real-time operating system and the second operating system being a general purpose operating system,

the first operating system being arranged to communicate voice data and the second operating system being arranged to communicate signalling and/or supervisory data, using respective first and second TCP/IP stacks sharing a common IP address,
and

wherein the first operating system is arranged to use a UDP/IP protocol stack to communicate said data.

18. (Currently Amended) A method of providing network access to a computer, said method comprising:

providing first and second operating systems on the computer, operating concurrently, [[while]] wherein the first operating system is a real-time operating system and the second operating system is a general purpose operating system, said operating systems sharing a logical network address and allowing said operating systems to share access to a network interface of said computer; and
wherein the first operating system is arranged to use a UDP/IP protocol stack to communicate data

~~receiving all incoming data packets by the first operating system; and
forwarding to the second operating system those packets which are not specifically for use by the first operating system or applications running thereon.~~

19. (Previously Presented) Computer-readable tangible storage media storing executable code for causing a computer to perform the method of claim 18 or 23.

20. (Cancelled)

21. (Currently Amended) A computer system configured for communications, comprising:

a processor;

a first operating system running on the processor, said first operating system being a real-time operating system;

a second operating system running on the processor, said second operating system being a general purpose operating system; and

a network interface for communicating data,

wherein the first and second operating systems are arranged to share usage of the network interface;

the system further comprising code for providing a real-time data transmission channel for communicating data and associated control and/or supervisory signals, in which the code comprises:

first code operating under said first operating system for communicating said data; and

second code operating under said second operating system for communicating said control and/or supervisory signals,

wherein the first operating system is arranged to use a UDP/IP protocol stack to communicate said data

the network interface operates using a single set of network addresses common to both operating systems;

the first operating system comprises a transmission scheduler arranged to selectively enable the first operating system or the second operating system to transmit

data via the network interface, thereby to allocate transmission capacity between the two operating systems;

the first operating system comprises a first proxy driver program, and a network interface driver program for communicating data from the first operating system to the network interface;

the second operating system, instead of a network interface driver program, comprises a second proxy driver program for communicating with the first proxy driver program; and

the first operating system comprises the transmission scheduler arranged to selectively forward outgoing data from the first and second operating systems for transmission through the network interface data from the second operating system being forwarded via the first and second proxy driver programs.

22. (Cancelled)

23. (Currently Amended) A method of providing network access to a computer, said method comprising:

providing first real-time and second general purpose operating systems on the computer, operating concurrently, and sharing a network address while allowing said operating systems to share access to a network interface of said computer,

the first real-time operating system comprising a first proxy driver program[[.]] and a network interface driver program for communicating data from the first real-time operating system to the network interface, said real-time operating system being configured to use a UDP/IP protocol stack to communicate said data;

the second general purpose operating system, instead of a network interface driver program, comprising a second proxy driver program for communicating with the first proxy driver program;

receiving all incoming network data packets at the network interface of the first real-time operating system which then selectively forwards to the second general purpose operating system incoming data packets not specifically for use by the first real-time operating system; and

selectively enabling the first real-time operating system or the second general purpose operating system to transmit outgoing data via the network interface of the first real-time operating system, thereby to allocate transmission capacity between the two operating systems.